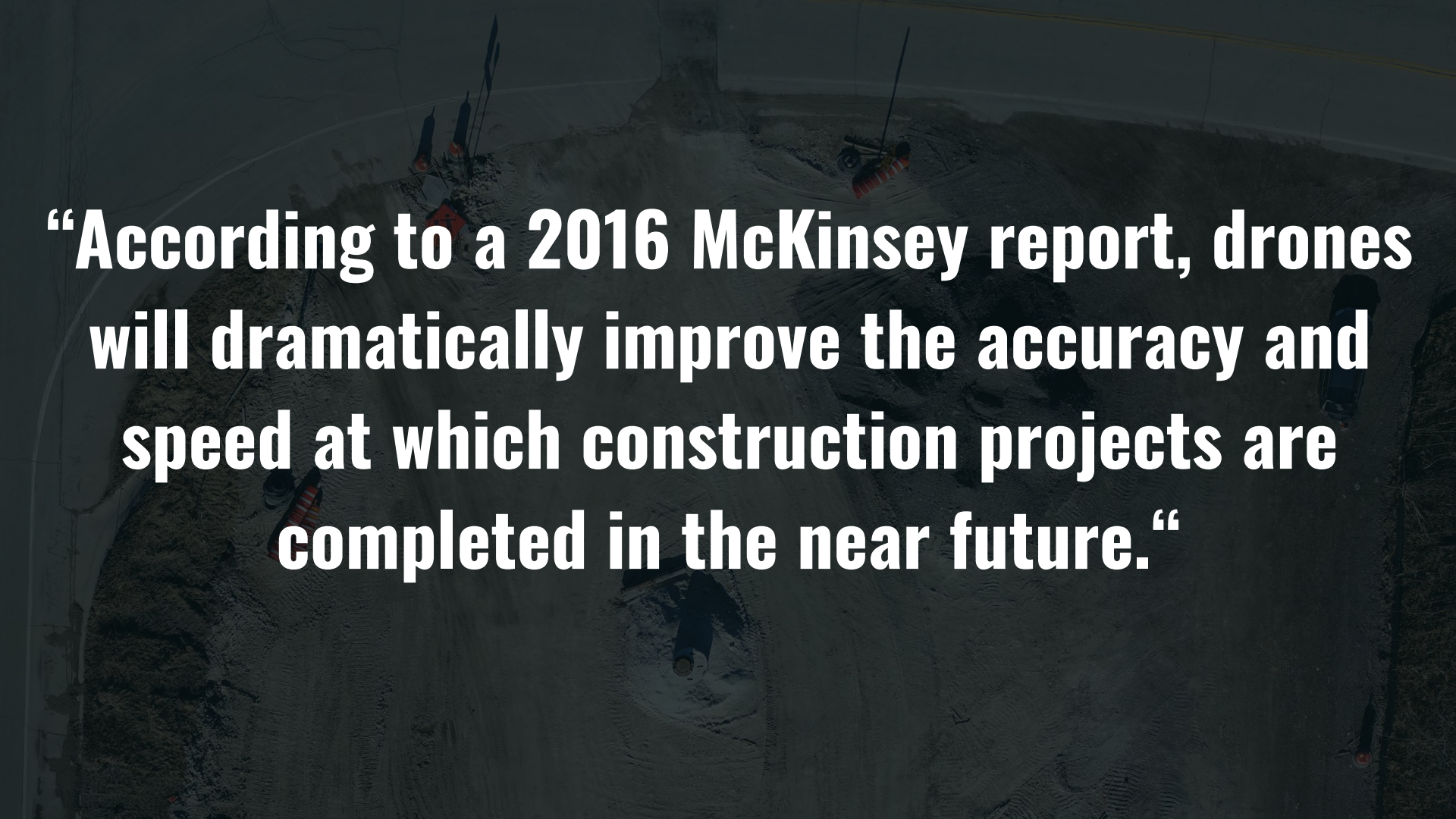


Getting Started Using Drones In AEC

Take Your Project to New Heights!





“According to a 2016 McKinsey report, drones will dramatically improve the accuracy and speed at which construction projects are completed in the near future.”

Helios Visions is a drone services company that collects geospatial data for clients in the AEC industry.

We help clients gain access to real time jobsite insights to make data based decisions that reduce project costs and simplify project planning and management.



An aerial photograph of a city street grid, likely in New York City, showing streets like Clinton St, St, S Plymouth, and S State. A green rectangular outline is superimposed on the image, highlighting a specific area of interest for mapping.

We help you scope your work site from every angle using state-of-the-art drone mapping services.

An aerial photograph of a construction site, featuring a large circular excavation pit. The ground is sandy and shows tire tracks. Several pieces of construction equipment are visible, including a blue and orange striped barrier, a blue and white striped barrier, and a blue and white striped barrier. A blue and white striped barrier is also visible in the lower right. The text "Aim Higher ▲ Work Faster ▲ Build Smarter" is overlaid in white, bold, sans-serif font across the center of the image.

Aim Higher ▲ Work Faster ▲ Build Smarter

What we do

- 1) Marketing photos and videos
- 2) “As Built” 3D models
- 3) High resolution orthomosaics
- 4) Elevation Maps
- 5) 360 Panoramas (VR)
- 6) Progress Monitoring
- 7) Line of site visualizations
- 8) Asset Inspections
- 9) Thermal



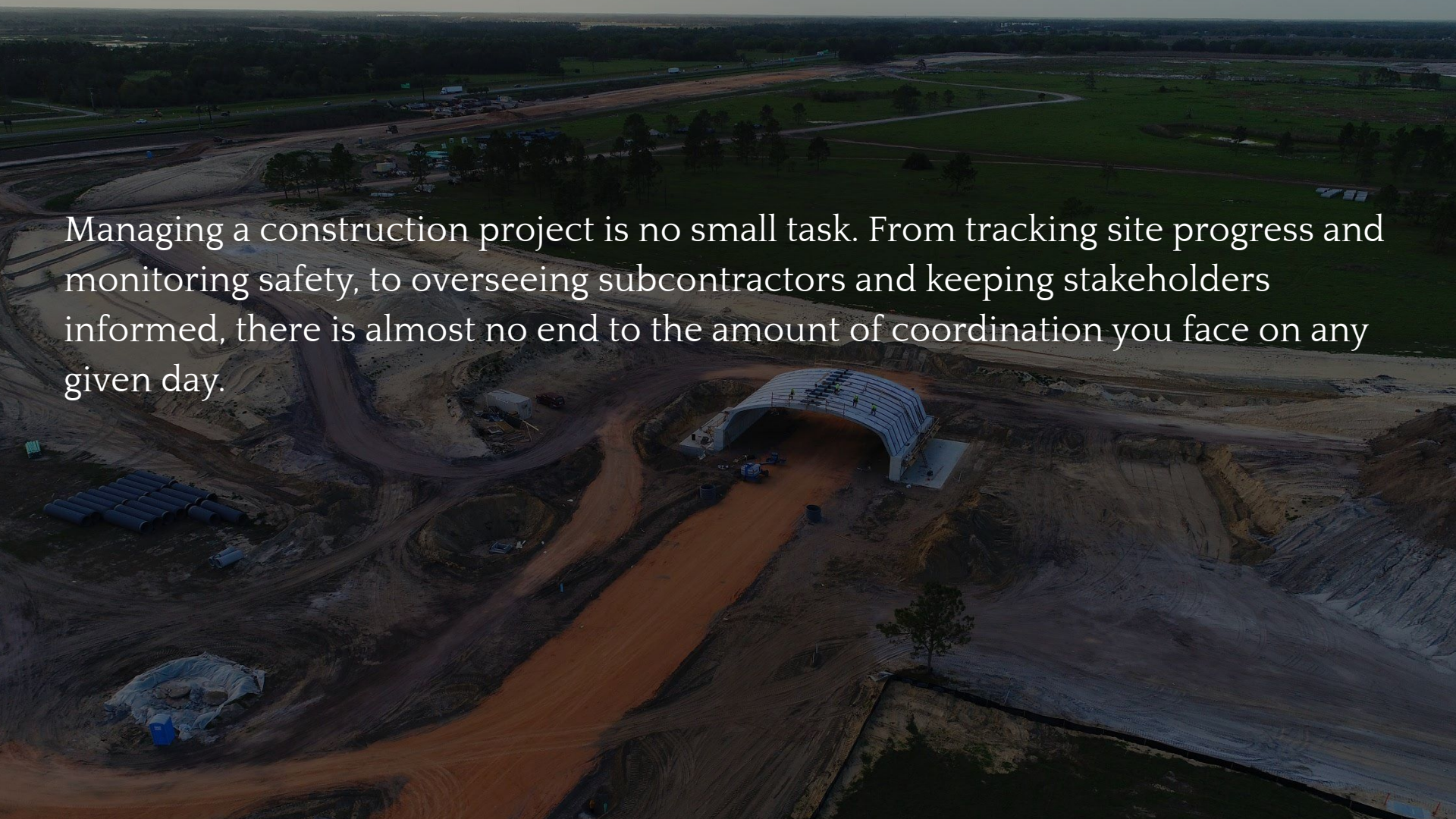
What you get when working with us

- 1) FAA Licensed/insured drone pilot
- 2) Photographer/videographer
- 3) Photo/video editor
- 4) State of the art software
- 5) Your point of contact is an owner of Helios Visions

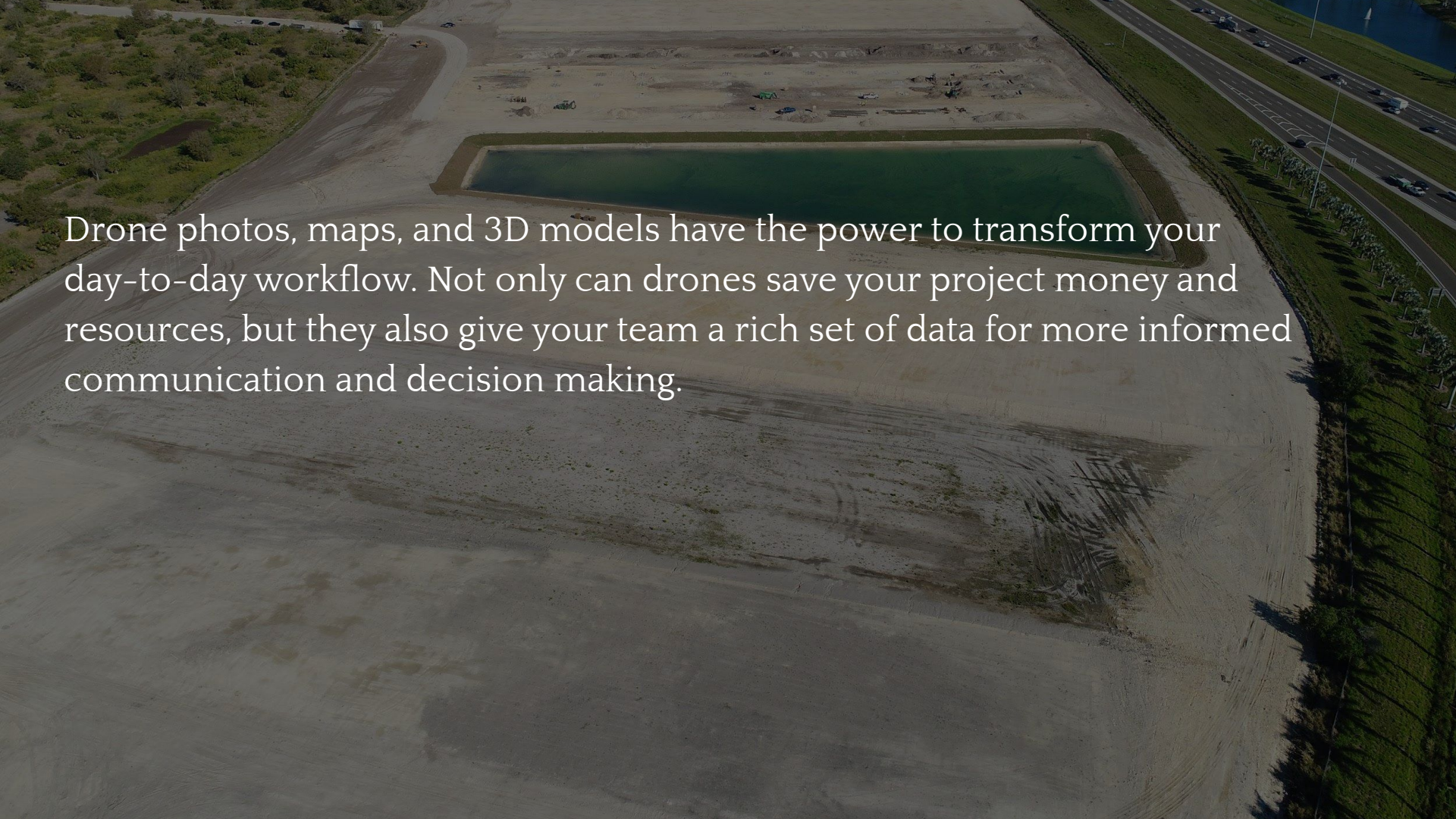
An aerial photograph of a construction site. A large, curved, light-colored earthen embankment or dike runs across the upper half of the image. To the right of this embankment is a dark, calm body of water. The foreground and middle ground show various construction activities, including dirt roads, construction equipment, and some temporary structures. The overall scene is captured from a high angle, providing a comprehensive view of the site's layout and progress.

Tracking and Communicating Site Progress with Drones

Leverage drone imagery for better insights,
planning, and communication on your job site

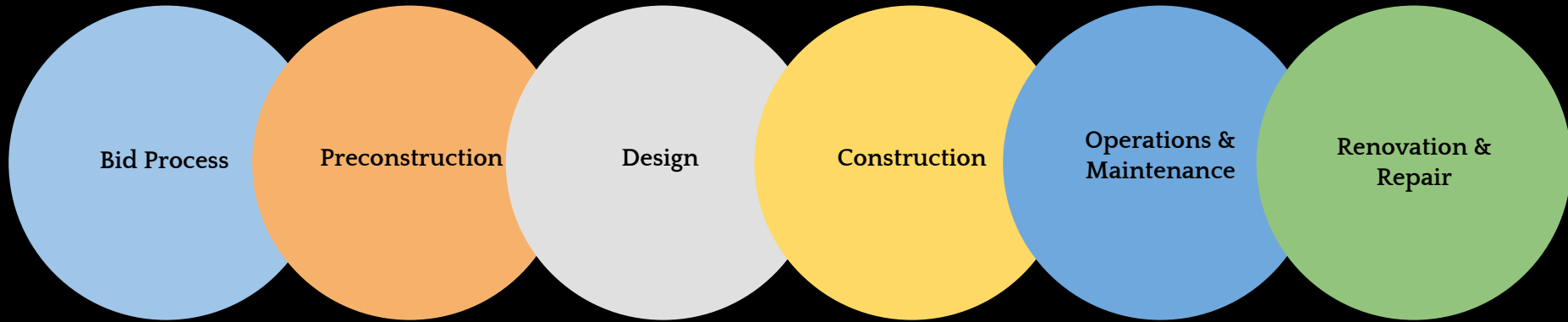
An aerial photograph of a large-scale construction project. In the center, a large, arched concrete structure, possibly a bridge or culvert, is under construction. The structure has a corrugated metal roof or formwork. A muddy, brown river or canal flows through the site, passing under the structure. To the left, there are stacks of large, dark pipes. The surrounding area is a mix of dirt, sand, and some green grass. In the background, there are trees and some buildings, suggesting a rural or semi-rural setting. The overall scene is one of active construction and earthmoving.

Managing a construction project is no small task. From tracking site progress and monitoring safety, to overseeing subcontractors and keeping stakeholders informed, there is almost no end to the amount of coordination you face on any given day.

An aerial drone photograph of a large, flat, sandy construction site. In the upper center, there is a rectangular pond with greenish water. To the right, a multi-lane highway with several cars is visible, bordered by a green grassy area and a line of palm trees. The foreground is a vast, flat expanse of sand with some tire tracks. The text is overlaid on the left side of the image.

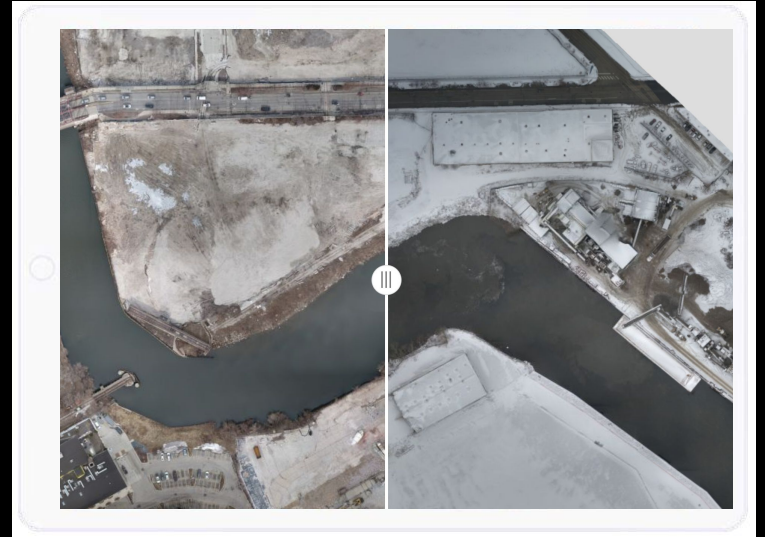
Drone photos, maps, and 3D models have the power to transform your day-to-day workflow. Not only can drones save your project money and resources, but they also give your team a rich set of data for more informed communication and decision making.

Drones Can Provide Value at Every Stage of a Projects Life Cycle



Drones are Transforming Workflows

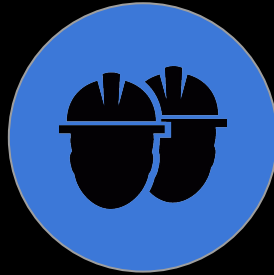
- Capture aerial imagery in minutes
- Share collaborative maps, models, and reports
- Survey sites in record time
- Integrate aerial data with everyday tools



Delivering ROI in Construction



Increase Efficiency



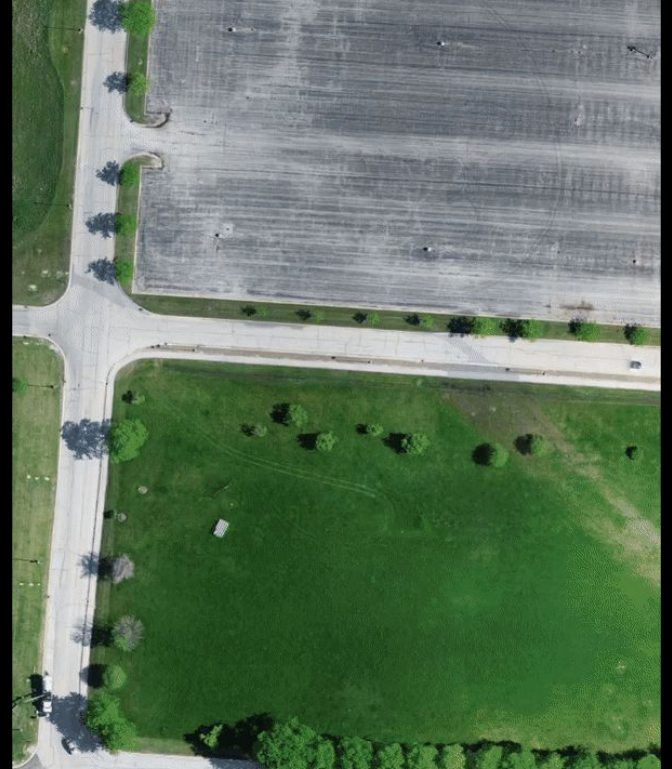
Improve Safety



Drive Productivity

Tracking Site Progress with Drones

- Collect aerial imagery on a regular basis
- Create visual timelines
- Compare designs to real world conditions
- Detect deviations from plans



Communicating Site Progress

- Keep stakeholders and clients up to date on a project's status
- Share collaborative maps and models with your team for better project management
- Connect the job site to the back office

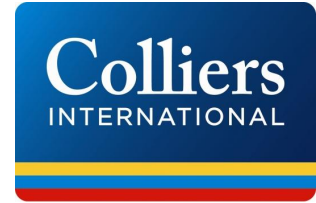


Why Drone Imagery?

- Fast, same day turnaround time
- Repeatable, consistent, and accurate data
- Low initial costs to prove value
- High return-on-investment (ROI)
- Easy to share, collaborate, and export data to your existing industry tools



Companies We Work With



Drone Data Applications

Marketing & Promotional Materials

An aerial photograph of a dense urban landscape, likely downtown Los Angeles, featuring a prominent skyscraper with a distinctive green glass facade and a circular skylight on its roof. The surrounding area is filled with various other buildings, streets, and parking lots. The text "Marketing & Promotional Materials" is overlaid in white on the left side of the image.

















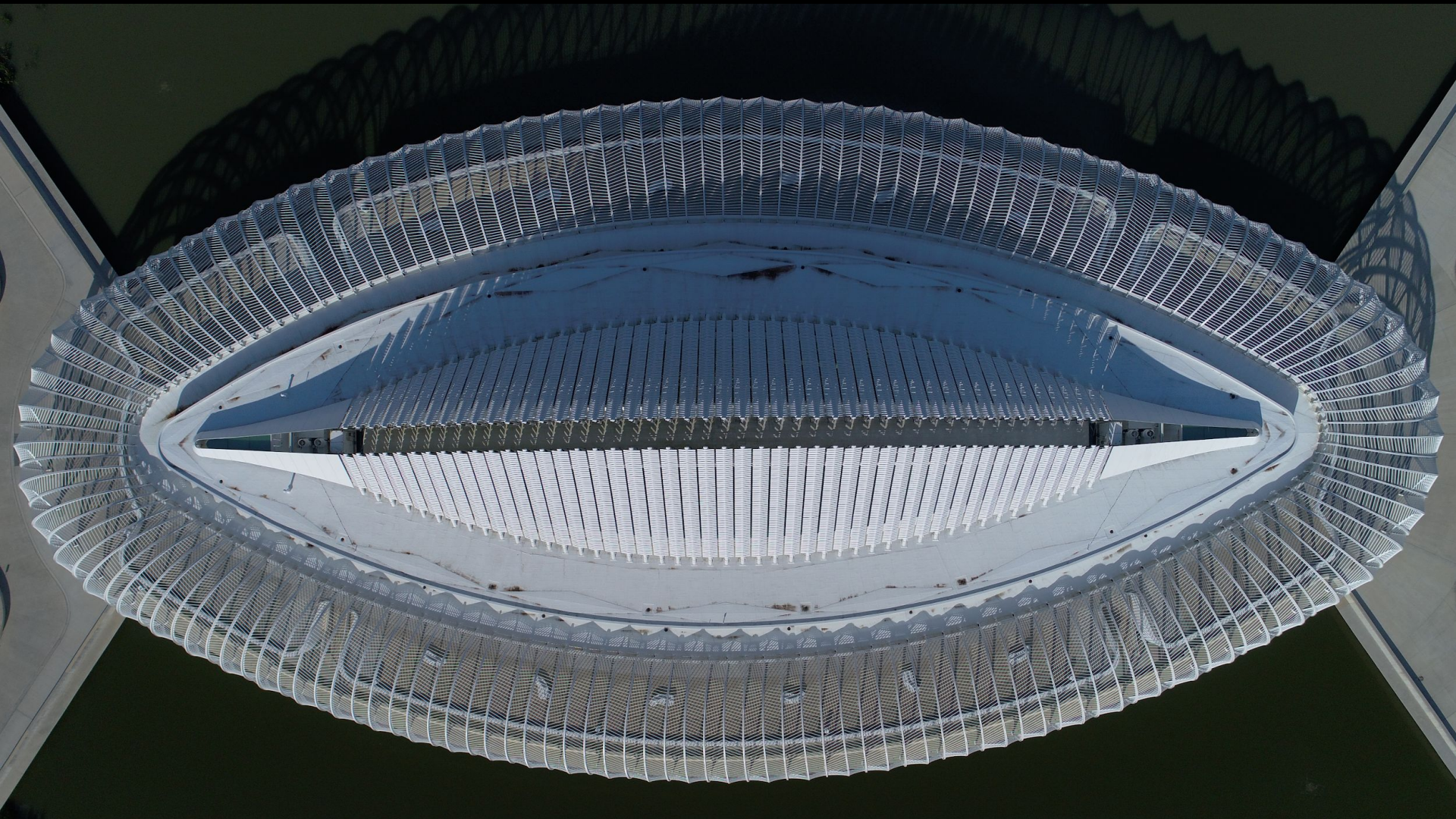






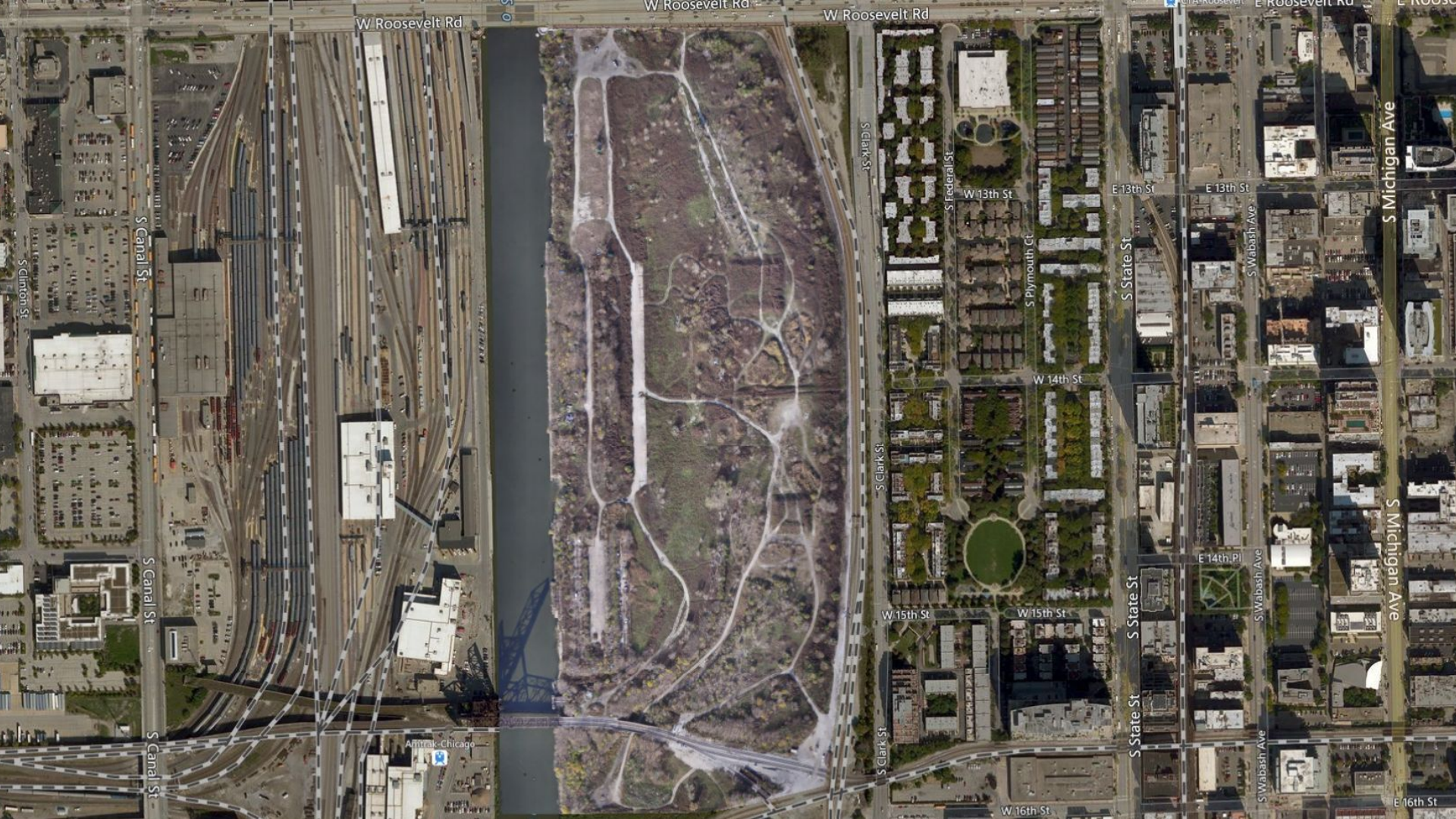






Pre-construction Bidding & Estimation

An aerial photograph of a city street grid, likely in Chicago, showing a large park area in the center. The text "Pre-construction Bidding & Estimation" is overlaid in white. The street names visible include W Roosevelt Rd, S Clinton St, S Canal St, S Clark St, S Plymouth St, S State St, S Wabash Ave, S Michigan Ave, W 13th St, W 14th St, W 15th St, W 16th St, E 13th St, E 14th St, and E 15th St. The park area is a large, irregularly shaped green space with winding paths and some trees. The surrounding urban area consists of a dense grid of streets and buildings.





Line of Sight Visualizations

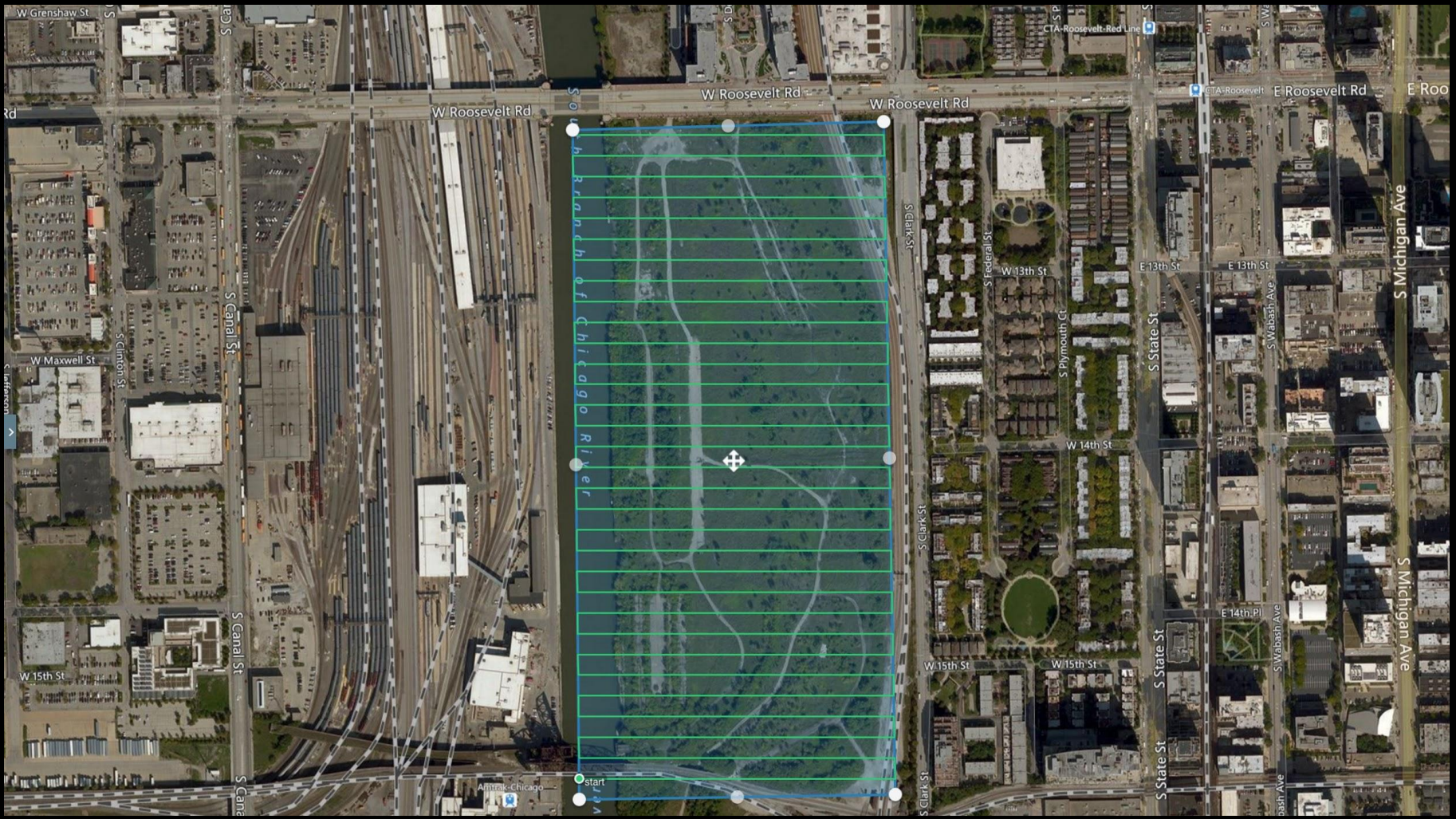




2D Base Maps - “Bird’s Eye View”







20.0'
LANDSCAPE
BUFFER

100-YR FEMA ZONE
BOUNDARIES

FUTURE
DEVELOPMENT

BLDG 5
123,816 S.F.

BLDG 4
123,816 S.F.

BLDG 3
86,136 S.F.

PORTION of the
Northeast 1/4 of the
Southwest 1/4

513°49'20"E
492.44'(S)
513°48'58"E
492.44'(D)

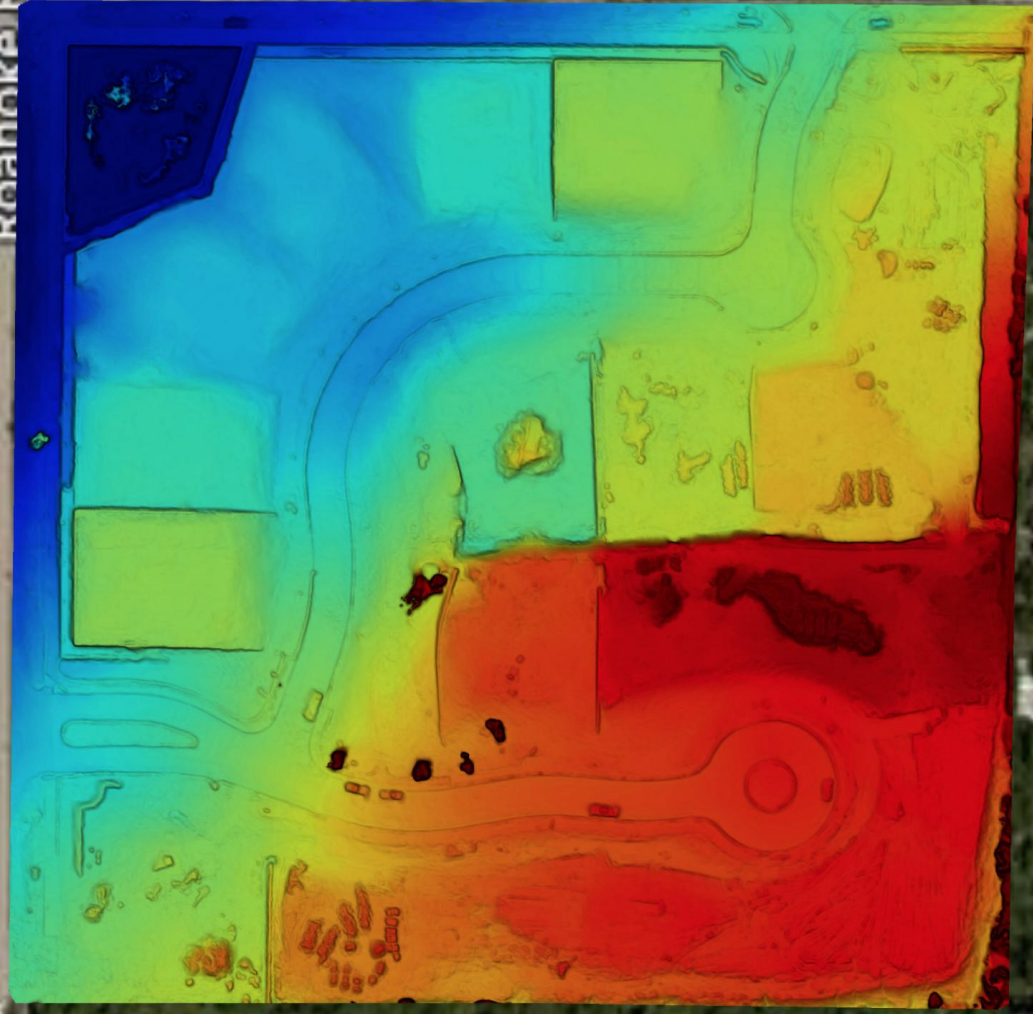
513°49'20"E
492.44'(S)
513°48'58"E
492.44'(D)

14.8





Roanoke Rd





FRANK & JOHNSON RECREATION CENTER

JOHN J. ABRAHAMSON CENTER

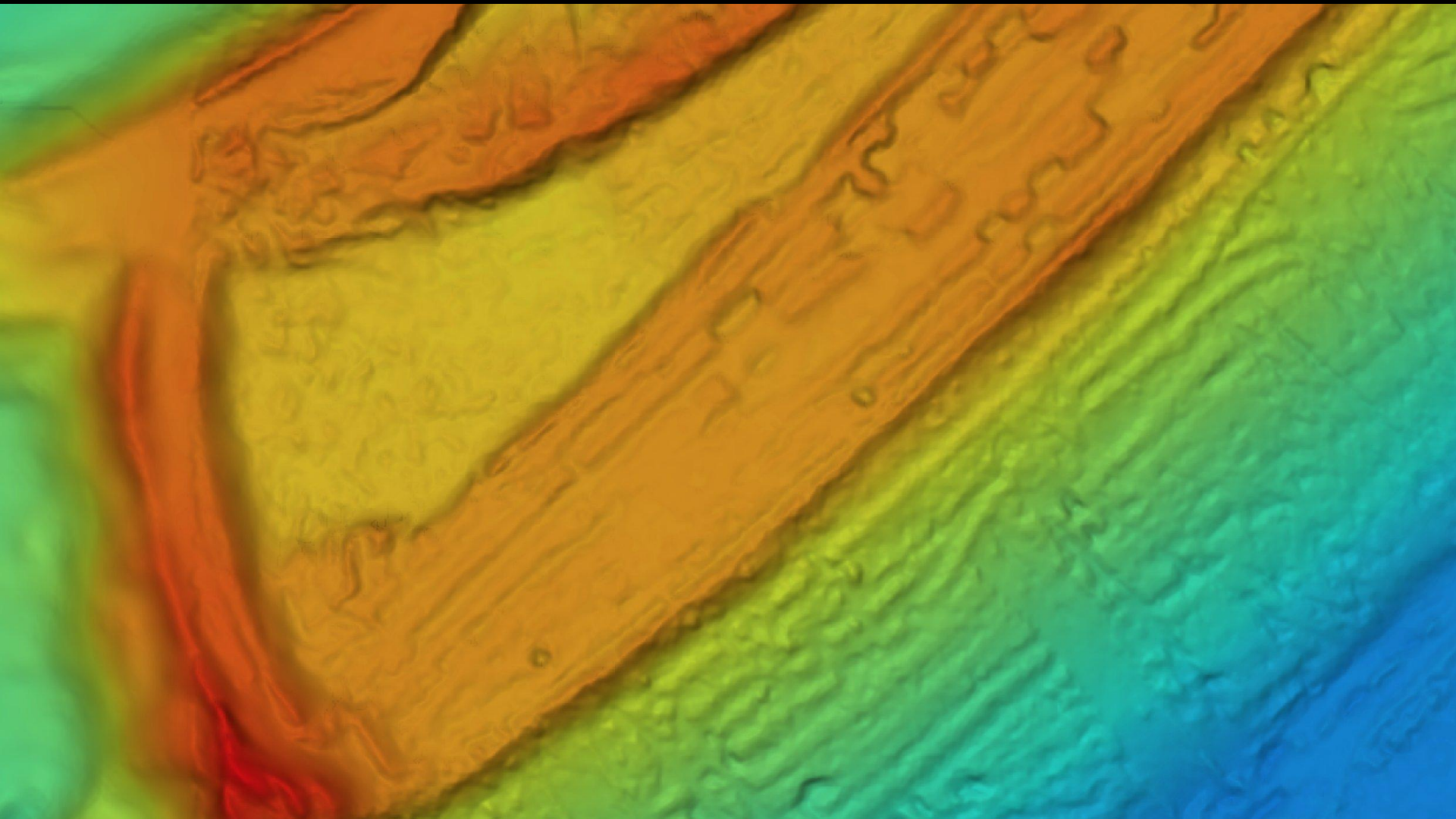










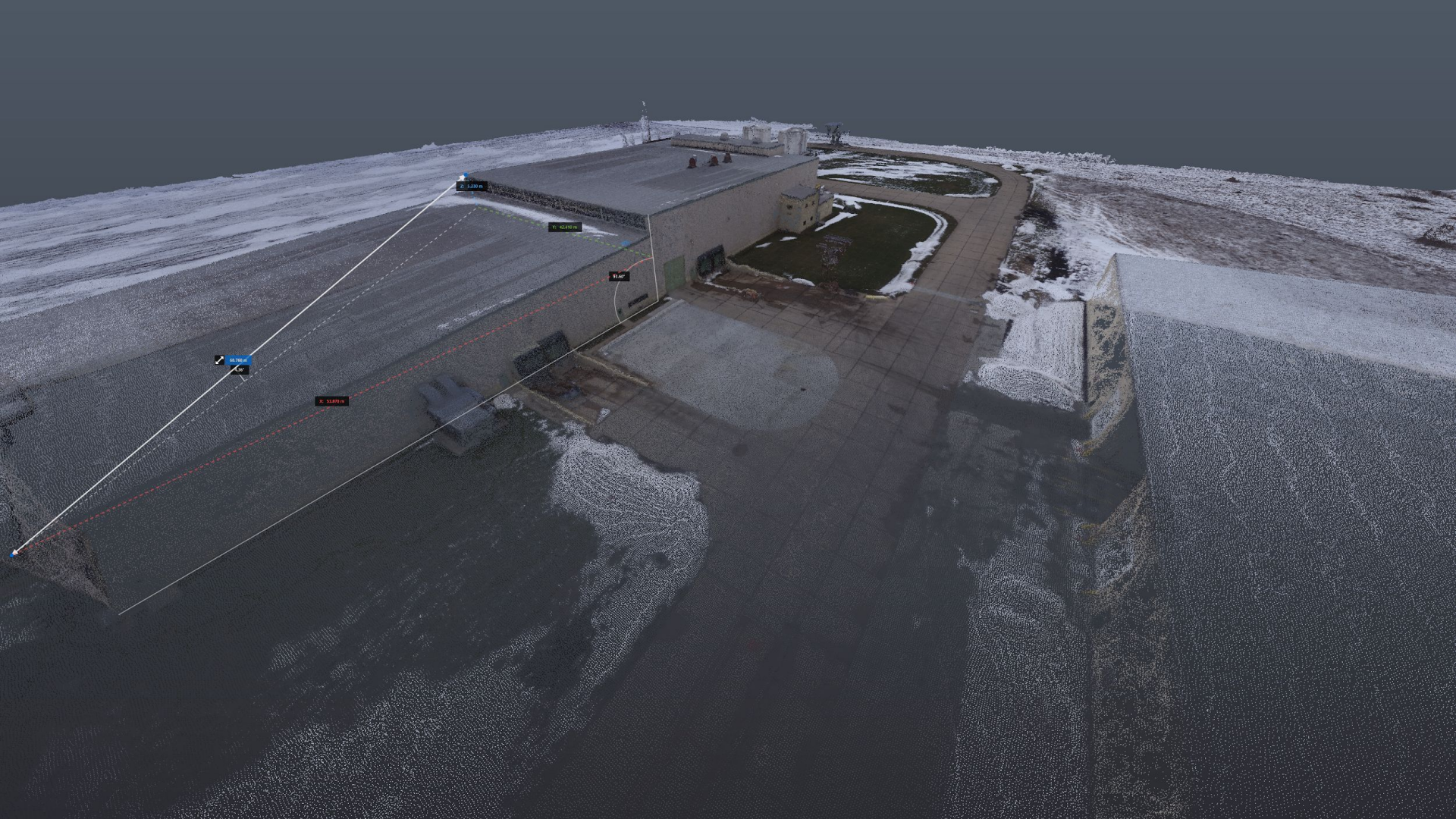




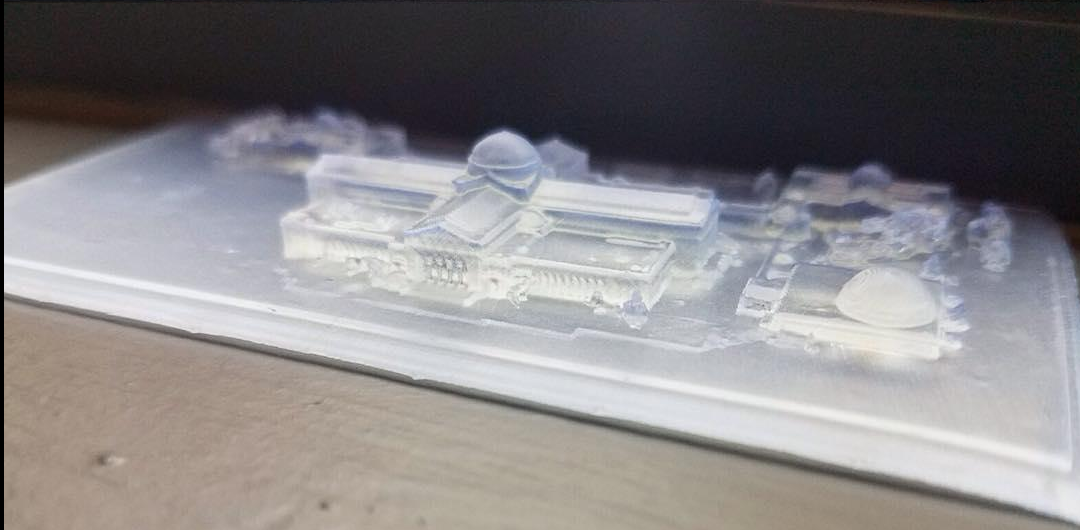
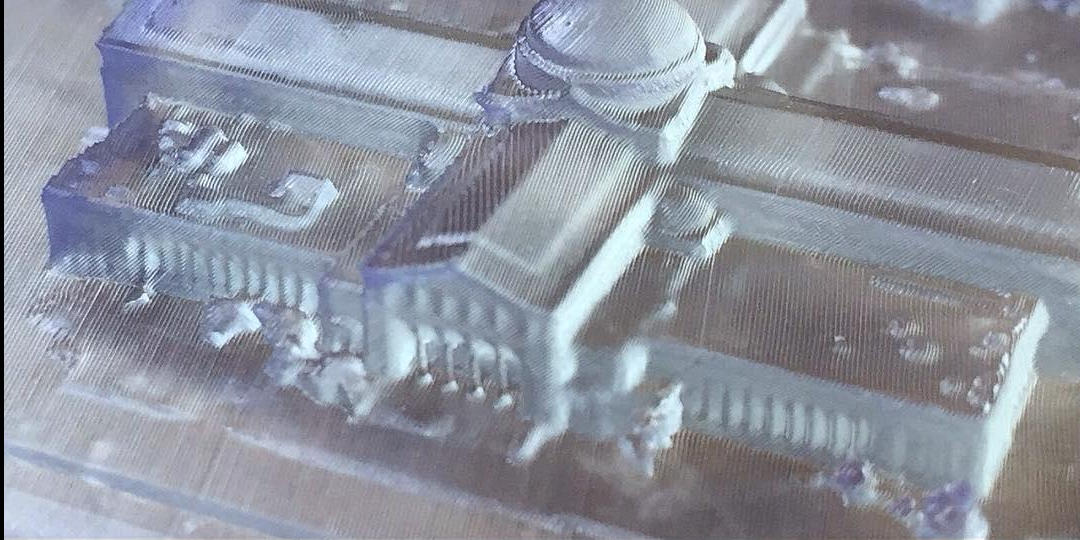


Point Clouds - “As Built” 3D Models



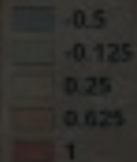






Volumetric Measurements - Earthworks

Elevation Change (m)



Annotation & Measurement



Location



Distance



Area



Volume

Title

Salt Pile Volume



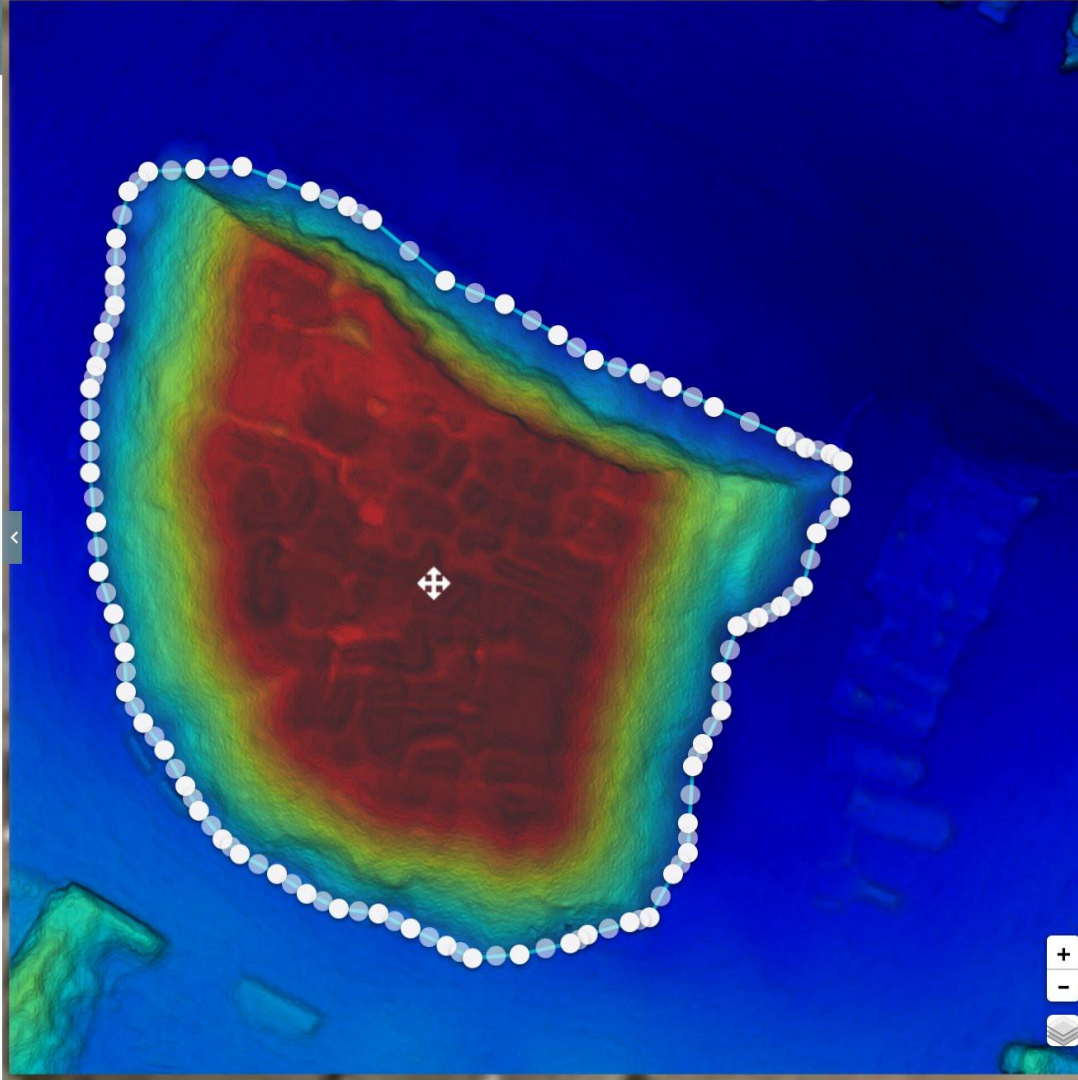
Area	0.8 acres
Cut	31208.3 y ³
Fill	0 y ³
Volume	31208.3 y ³

Base Plane

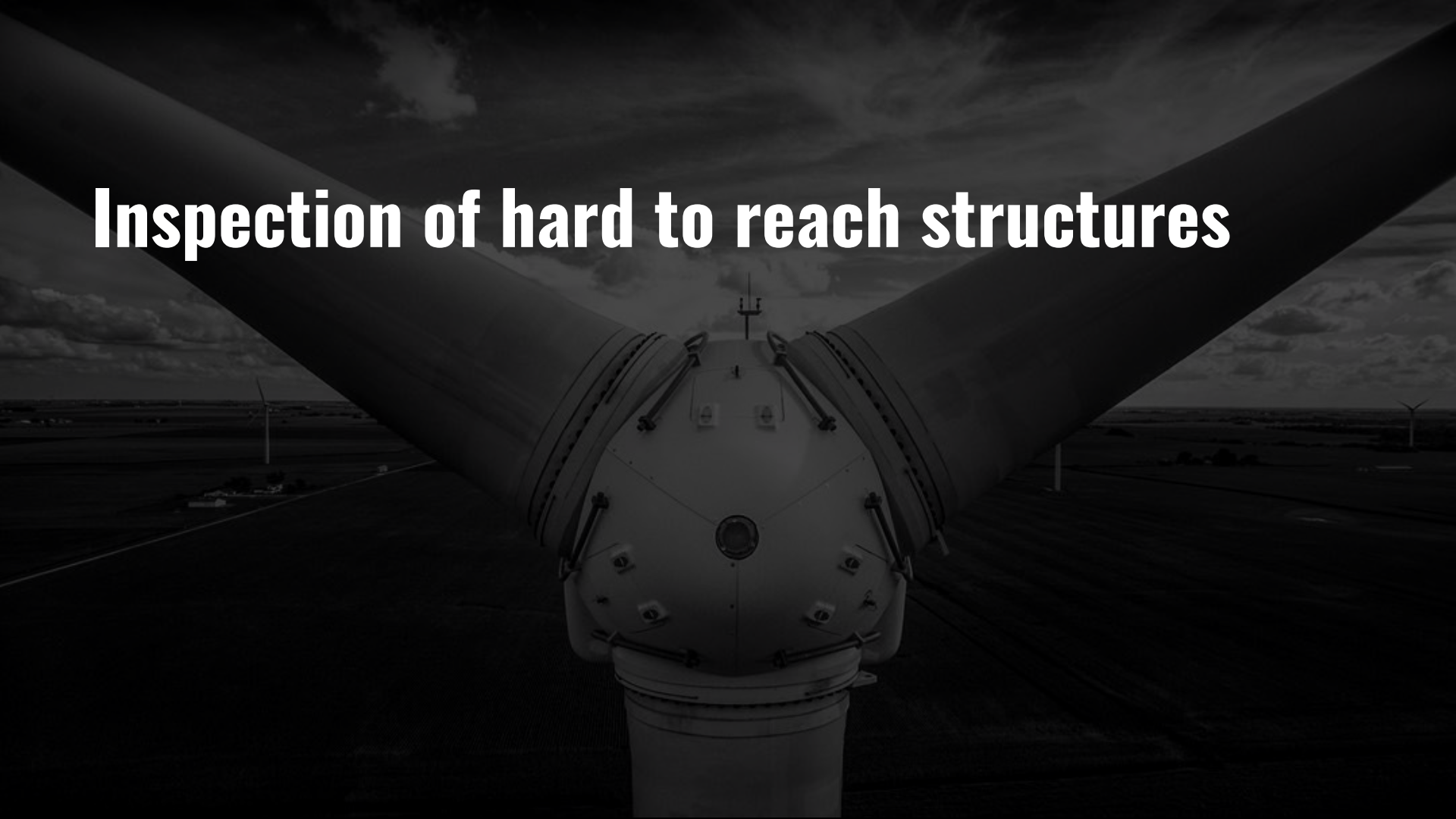
Lowest Point



Add a comment



Inspection of hard to reach structures







An aerial, top-down view of a large-scale construction or excavation project. The ground is uneven, with deep tracks from heavy machinery. Several workers in high-visibility orange and blue gear are visible, along with pieces of equipment like a small tractor and a large pile of earth. The overall scene is dimly lit, with a dark, moody atmosphere.

**Reach out to Helios Visions to get data
that works hard so you can breathe easy.**

Helios Visions
406 North Aberdeen,
Chicago IL 60642

-
(312) 999-0071

www.heliosvisions.com/contact